



Technology & Product Update

Presented March 19th, 2015

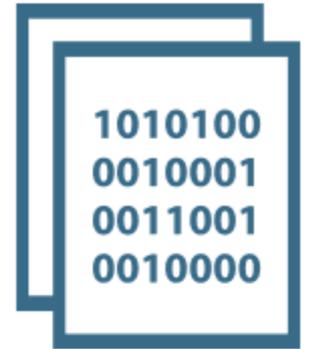
Updates

- CONNECT Platform
- CONNECT Image Service
- CONNECT IPA's, Mobile, Assessment
- CONNECT Gateway
- Getting the most out of your imagery and LiDAR
 - Planimetric Mapping – 2D & 3D
 - Deriving/Extracting digital map products from LiDAR
- 3D Models/Critical 360
- Unmanned Aerial System (UAS) aka DRONES
- FutureView





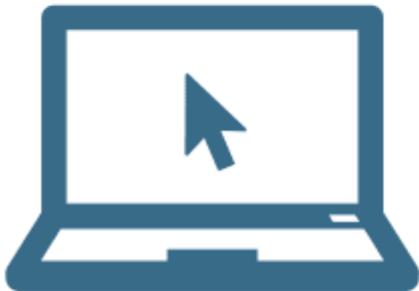
Pictometry Images



Your GIS Data



CONNECT™



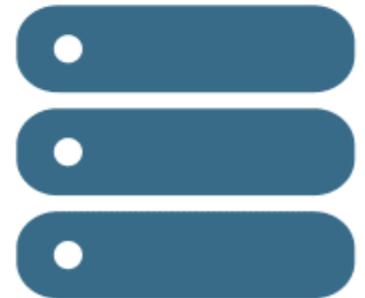
Browsers



Desktop



Mobile



Your Server

Pictometry Online

The screenshot displays the Pictometry Online web application interface. At the top, a browser window shows the URL <http://pictometry.com/en-us/app/>. The application header includes the title "Pictometry Online 1.10.2" and a user greeting "Welcome Chris Robinson | Admin | Coverage | Logout". Below the header is a navigation bar with "Workspace" and "Source: Address" fields, and a search bar labeled "Enter search criteria".

The main interface is divided into several sections:

- Workspace:** A sidebar on the left containing a tree view with "Annotations", "Bookmarks", and "Layers". The "Layers" section is expanded, showing a list of overlays: ADDRESS APN (red square), AREA OF COVERAGE (yellow square), ASSESSOR BOOK (red outline), GENERAL PLAN CITY (purple outline), GENERAL PLAN COU (pink outline), and MUNICIPAL BOUNDAR (blue outline).
- Properties:** A table below the workspace with columns "Name" and "Value".
- Selections:** A section at the bottom left for managing selected items.
- Main View:** A large aerial photograph of a city with several large, modern buildings and parking lots. Overlaid on the image are various colored shapes and lines corresponding to the layers in the workspace. A circular road feature is prominent in the center.
- Navigation and Tools:** A toolbar at the top center contains icons for various functions like pan, zoom, and measure. A navigation control in the top right includes a compass, a zoom slider set to "2/4", and a "Map Auto" button.
- Map Info:** A small inset map in the bottom right corner shows the current location on a street map, with a blue rectangle indicating the view area. It includes the "bing" logo and copyright information: "© 2013 Nokia Oyj or its subsidiary(ies) © 2014".

At the bottom left, the status "Ready" is displayed. At the bottom right, the date and scale are shown: "Date: 12/04/2012 | Level: Community | Scale: 75%".



CONNECT Explorer

CONNECTEXPLORER™ toronto, on

Address Bookmarks David Petterson

Search Results

Toronto, ON

Bookmark Hide Features Export

Your search returned 2 result(s) total.

Address (2)

- Toronto, ON
 - Populated Place
 - Street:
 - City: Toronto
 - State: ON
 - County: Toronto
 - Country: Canada
 - Postal Code:
- Old Toronto, ON

Map Type 06/21/2014 - 07/18/2014 Select Date

- Pictometry (Auto)
- Pictometry (Mosaic)
- Aerial
- Road
- Show Labels

Imagery will show a date range and option for Pictometry (Mosaic) will now be available

When zoomed out customer will see the border where their mosaic joins with the standard basemap

5000 ft

© 2015 Microsoft Corporation. © 2014 - 2015 Pictometry

pol.pictometry.com/explorer/index.php#

Next Generation CONNECTExplorer

The screenshot displays the CONNECTExplorer web application interface. The browser address bar shows `apptest.pictometry.com/ontario/index.php`. The application title is "CONNECT development". A search bar prompts the user to "Enter an Address, Landmark, or other Location".

The main workspace shows a 3D aerial view of a house with various roof features annotated. Annotations include:

- Ridge: 20.4 Feet
- Ridge: 22.2 Feet
- Ridge: 12.1 Feet
- Ridge: 36.4 Feet
- Gutters: 45 Feet
- Gutters: 29.2 Feet
- Gutters: 19.5 Feet
- Gutters: 13.1 Feet
- Gutters: 12.5 Feet
- Gutters: 14.7 Feet
- Down2: 15.3 Feet
- Down2: 18.3 Feet
- Down2: 14.6 Feet
- Down2: 12.1 Feet

Red arrows point from various interface elements to labels:

- Slope, XYZ, Roof Report**: Points to the top toolbar.
- Custom Labels**: Points to a label on the roof.
- Drawing Annotations**: Points to a label on the roof.
- Workspaces**: Points to the left sidebar.
- Tool Options**: Points to the "Identify Tool Options" section in the sidebar.
- Layers Legend**: Points to the "Layers" section in the sidebar.
- Contour Lines**: Points to the "Layers" section in the sidebar.

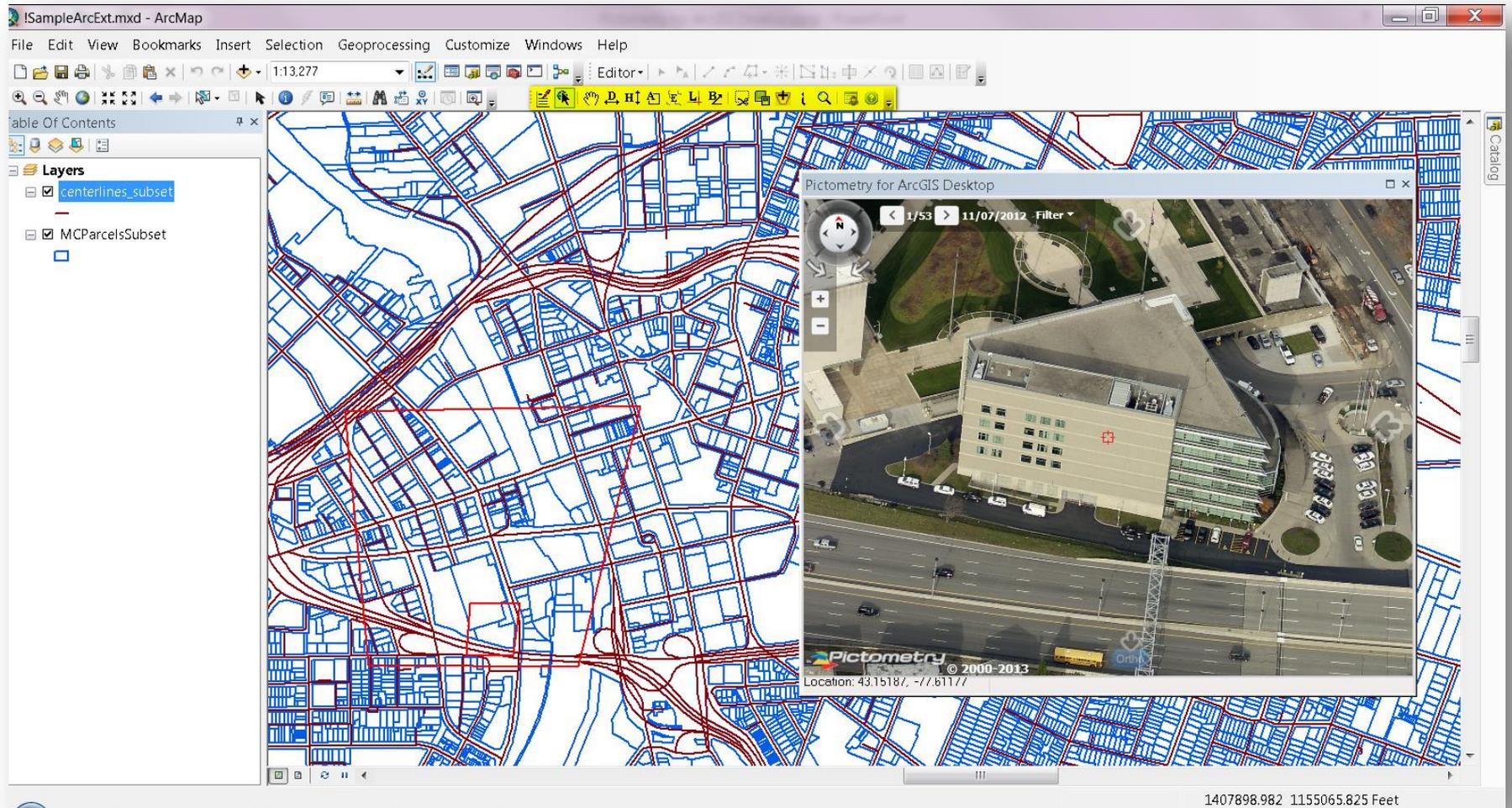
The left sidebar contains the following sections:

- House1**: Workspace
- Settings**: Group, Filter
- Visible**: Table with columns Name, Value, Tags, Label
- gutters: 7**: List of gutter measurements
- h-line: 4**: List of h-line measurements
- r-line: 5**: List of r-line measurements
- Identify Tool Options**: Search All, list of layers (2012_COR08, Buildings_MNG, etc.), Buffer Amount (0 Feet), Set As Defaults
- Search**
- Layers**: List of layers with checkboxes (Labels, Contours, Farmers Points, etc.)

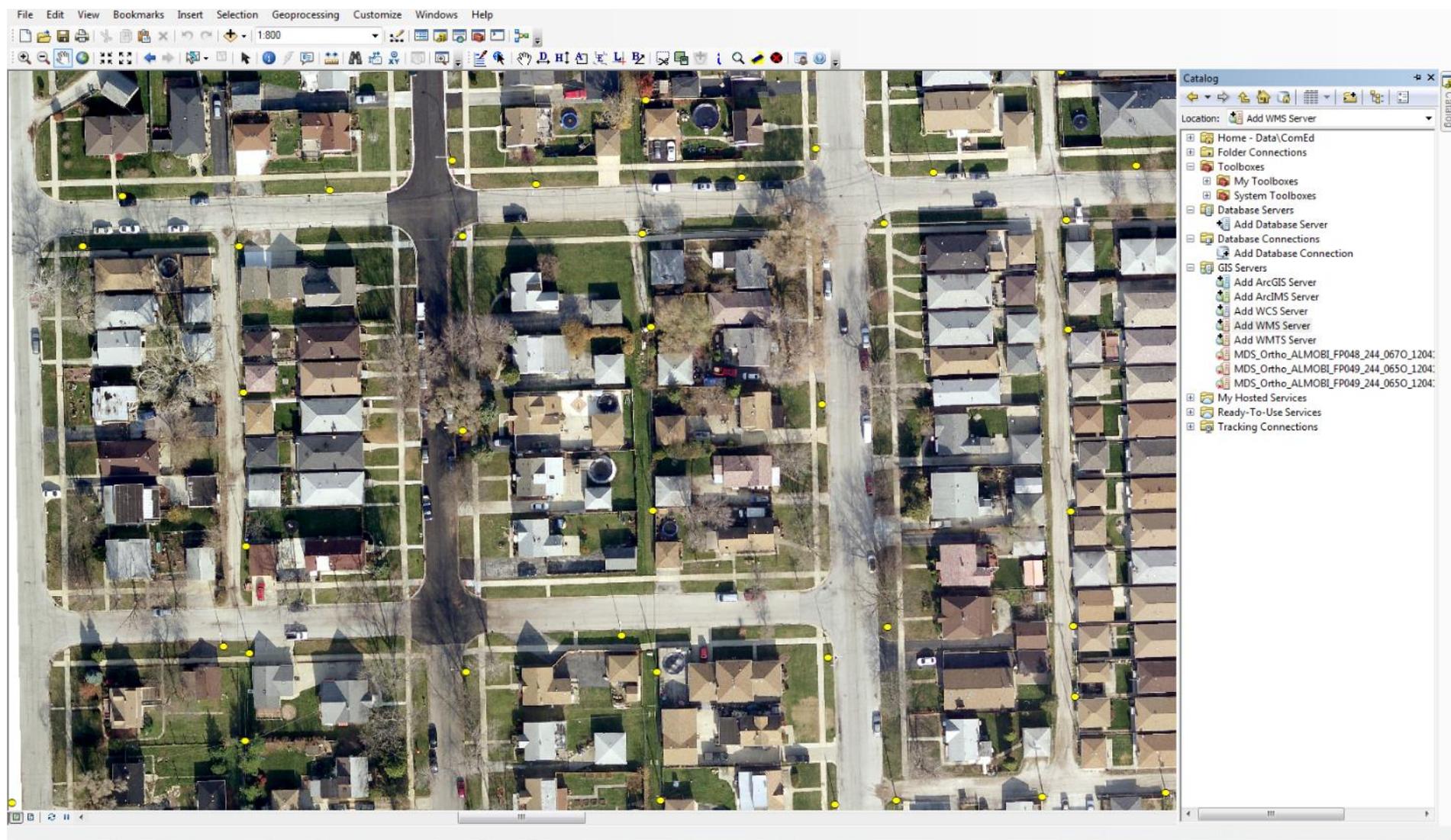


Pictometry for ArcGIS Desktop 10.3

Connect

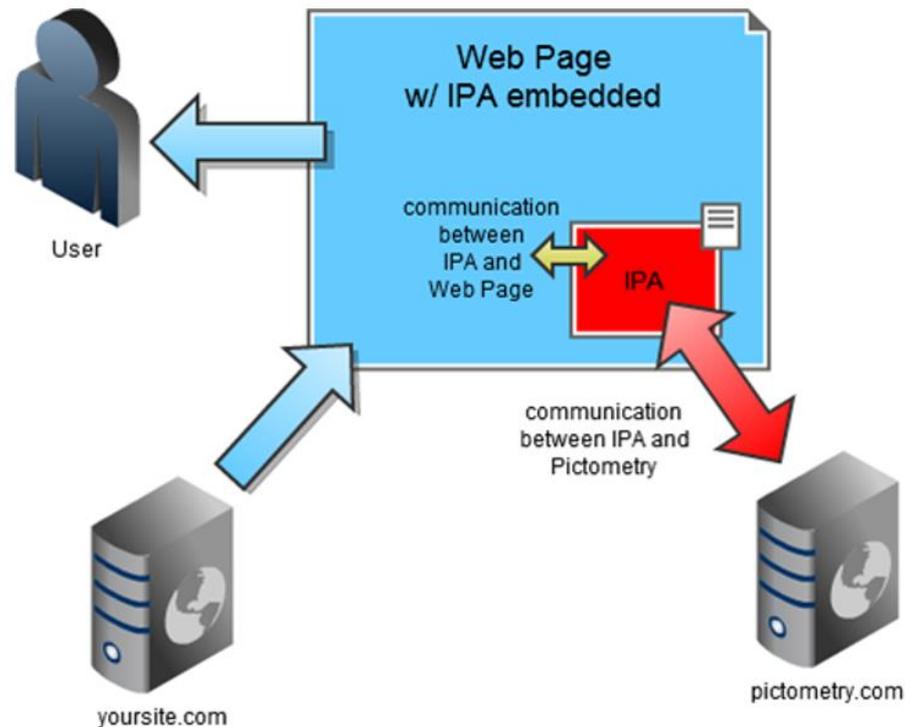


CONNECT ImageService



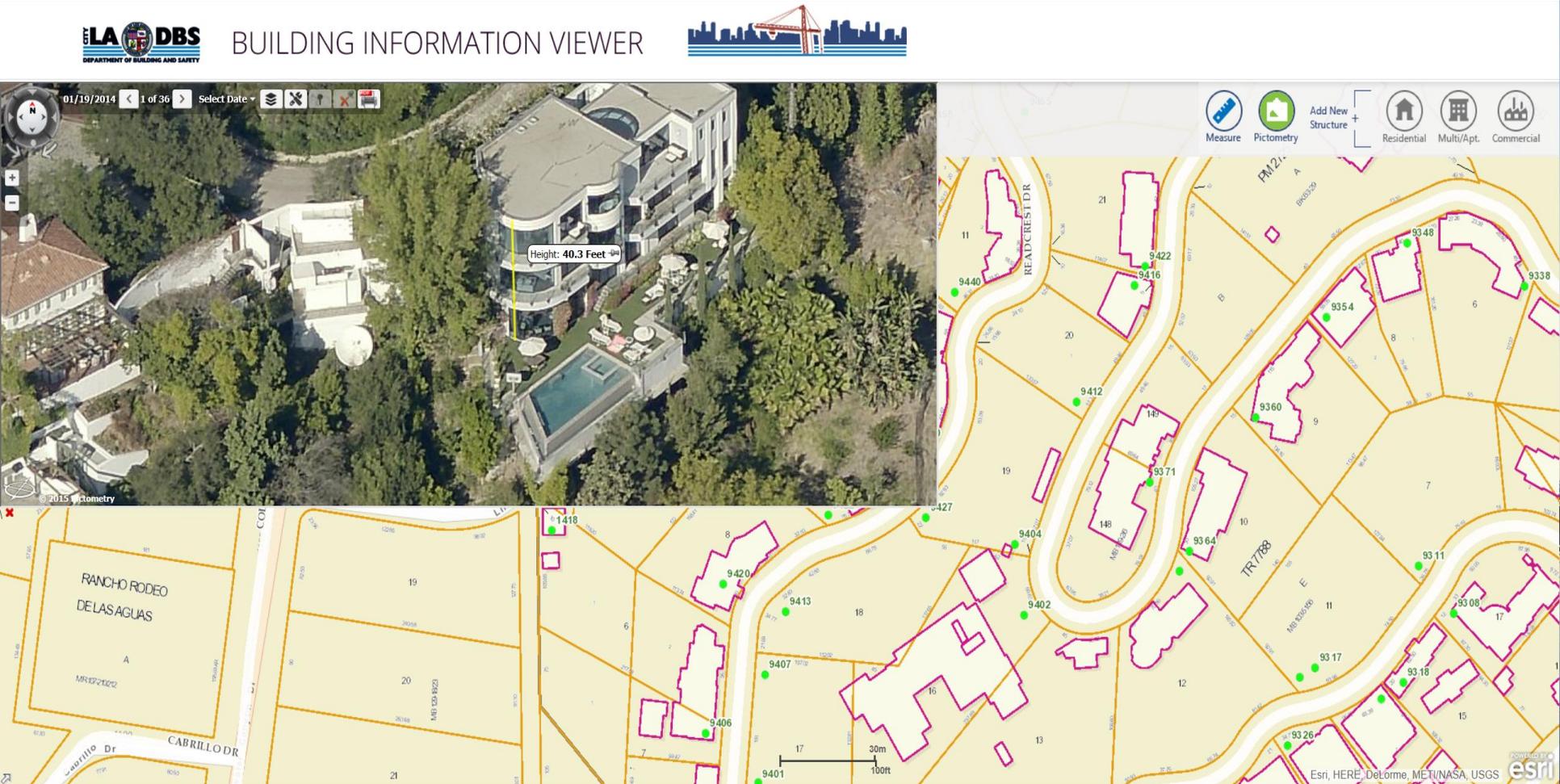
Integrated Pictometry Applications (IPA's)

A web component that can be integrated with a client's application by using JavaScript and iframes. The IPA is loaded as part of their web page and connects to Pictometry via the IPA JavaScript library



IPA - Integrated Pictometry Application (w/Analytics)

- Embedded iFrame



Custom Application – LA City Bldg & Safety

IPA - Integrated Pictometry Application (w/ Visualization)

- Embedded iFrame

The screenshot displays a web browser window titled "Assessor Parcel Viewer" with the URL `assessor.slco.org/Javaapi2/ParcelViewExt.cfm`. The application interface includes a toolbar with various icons, a "Base Maps" dropdown menu, and a "Pictometry 2013" dropdown menu. The main map area shows a grid of yellow parcel boundaries over a light-colored background. A "LOADING" indicator is visible in the top center of the map. On the right side, a "Parcel" panel displays a list of layers: "Land", "Structures", "Value History", and "Results 240". The text "East Mill Creek" and "16-33" are visible on the map. A "Pictometry" window is open in the top left corner, showing a detailed aerial view of a residential area with a compass rose, a date selector set to "03/22/2014", and a "1 of 105" indicator. The bottom of the application features a scale bar, a "Zoom to Results" button, a "Clear Graphic" button, and an "Export Results" button. The footer text reads "Salt Lake County Assessor, Surveyor, Recorder, and Information Services".

ArcGIS Server 10.2

Image Navigator Integration

- JavaScript API

The screenshot displays the Omega CrimeView Dashboard interface. At the top, the header includes the 'CRIMEVIEW Dashboard' logo, user information 'Executive BB', and a 'Crime Summary' dropdown menu. The main content area is titled 'Violent Crime Last 30 Days Citywide' and shows a map with 62 records. An aerial image viewer is overlaid on the map, showing a residential area with a red flag icon. A red arrow points from the map to a popup window titled 'AGGRAVATED ASSAULT'. The popup contains the following details:

CRIME CODE	4132 Assault (Known-Other Dangerous Weapon)
DRUG FLAG	N
ALCOHOL FLAG	N
GANG FLAG	N
ADDRESS	835 S 21ST ST
NEIGHBORHOOD	Near South
REPORT AREA	091
TEAM AREA	Southwest Team

The dashboard also features a sidebar with navigation options like 'BRIEFING BOOKS', 'LIBRARY', 'QUERIES ON DEMAND', and 'HOT SHEET'. At the bottom, there are three summary cards for 'Property Crime Last 30 Days Citywide', 'Violent Crime Trend Last 30 Days Citywide', and 'Property Crime Trend Last 30 Days Citywide'.

Omega CrimeView Dashboard



CONNECTMobile

Cancel iPad Only Any Price All Categories By Relevance pictomet...

Pictometry CONNECTMobile
Pictometry International Corp **OPEN**

Pictometry CONNECTMobile 4.4
Pictometry International Corp
★★★★☆

OPEN

Details Reviews Related

Description
Pictometry CONNECTMobile provides access to the highest quality aerial imagery in the world on your iPad, or iPhone. Search any address and be instantly presented with the best image of that location. Zero in on a specific property or zoom out to assess entire neighborhoods. Measure using the same measurement tools available everywhere on the Connect platform. Pictometry CONNECTMobile is available to Connect customers and eligible POL customers'...[more](#)

Featured Top Charts Near Me Purchased Updates



 **Pictometry CONNECTMobile**
Pictometry International, Corp.

UNINSTALL

OPEN

10

Downloads

Business

Business

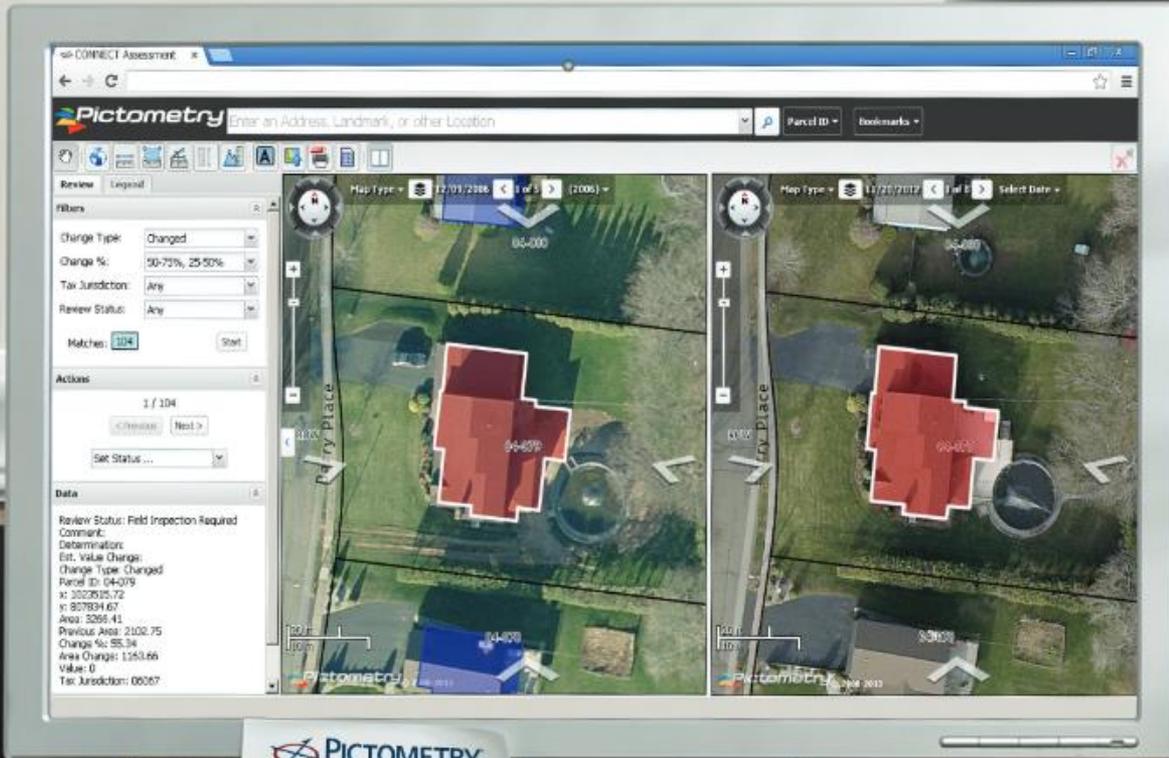
Similar

Similar

Access to the highest quality aerial
imagery in the world on your Android
Device

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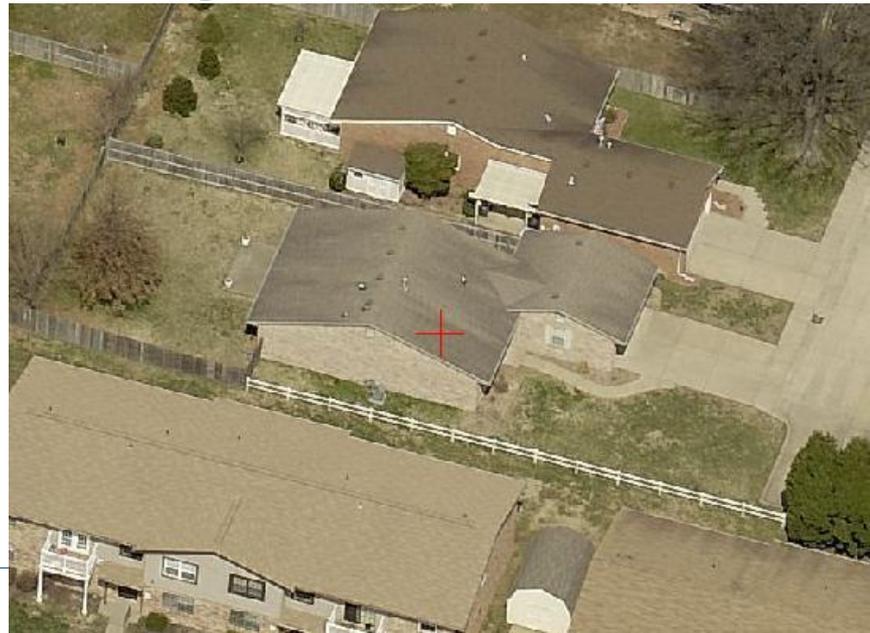
PICTOMETRY
INTELLIGENT IMAGES

*Present ROI
Tues. at 10am*

- View up-to-date imagery for accurate inspection and valuation
- Define search and sort criteria
- Building outlines can easily be viewed with a contextual background of aerial imagery
- Designate a property for field inspection or further analysis
- Proven ROI



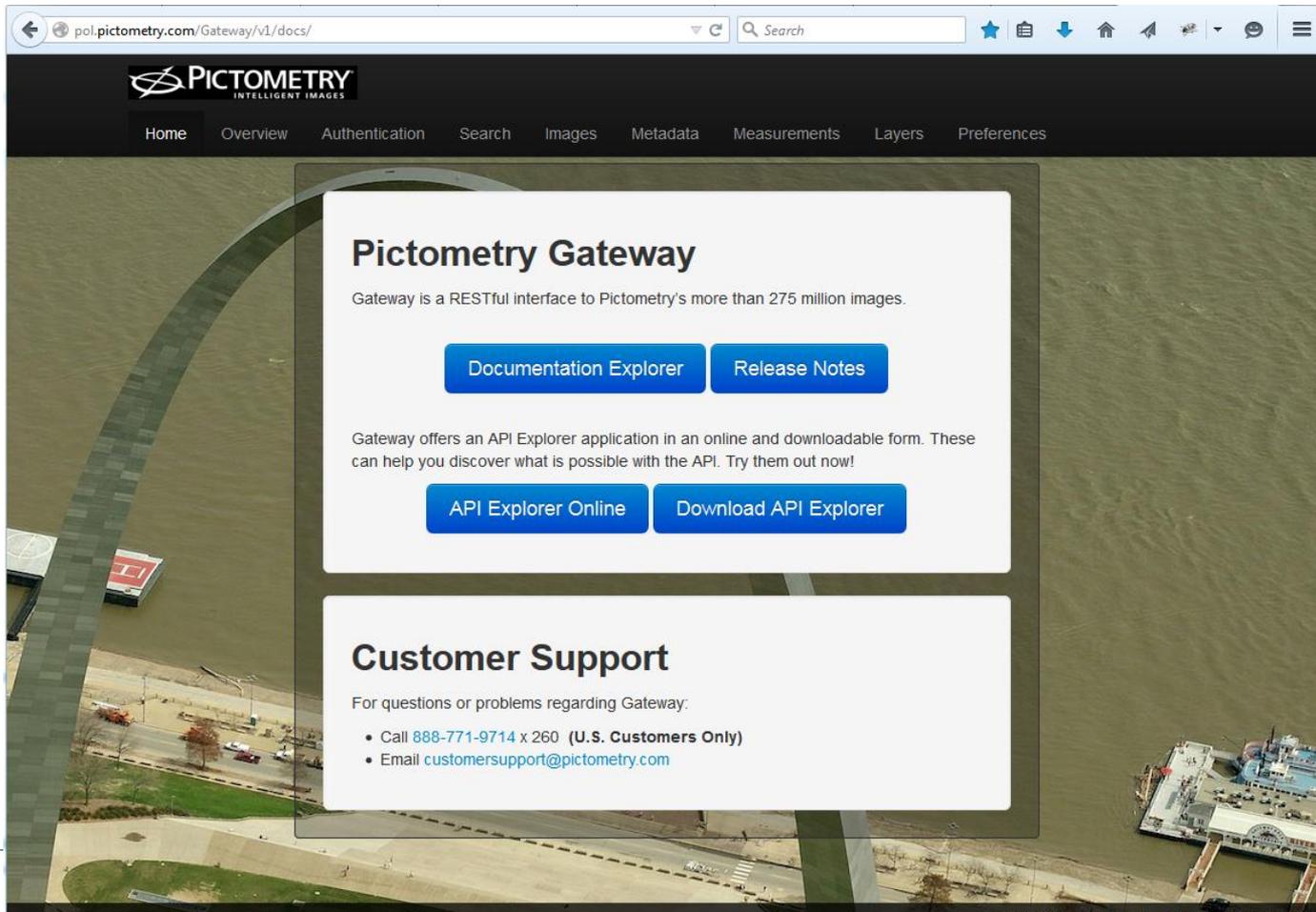
Gateway



What is Gateway?

Gateway is the name of an online, secure API that is part of the CONNECT platform

It is an API rather than an Application – you must program to the API



The screenshot shows a web browser window with the URL `pol.pictometry.com/Gateway/v1/docs/`. The page features a dark navigation bar with the Pictometry logo and menu items: Home, Overview, Authentication, Search, Images, Metadata, Measurements, Layers, and Preferences. The main content area is overlaid on a background image of a large bridge. It contains two white boxes. The first box, titled "Pictometry Gateway", describes it as a RESTful interface to over 275 million images and includes buttons for "Documentation Explorer" and "Release Notes". Below this, it mentions an API Explorer application and includes buttons for "API Explorer Online" and "Download API Explorer". The second box, titled "Customer Support", provides contact information for questions or problems regarding Gateway.

Pictometry Gateway

Gateway is a RESTful interface to Pictometry's more than 275 million images.

[Documentation Explorer](#) [Release Notes](#)

Gateway offers an API Explorer application in an online and downloadable form. These can help you discover what is possible with the API. Try them out now!

[API Explorer Online](#) [Download API Explorer](#)

Customer Support

For questions or problems regarding Gateway:

- Call 888-771-9714 x 260 (U.S. Customers Only)
- Email customersupport@pictometry.com



What is Gateway for?

Property-focused, cropped JPGs: Request and download discrete images for a location (address or Lat/Lon) (can choose year, size of image, direction)

Using those images for a website, report, database....

The screenshot displays a web interface for property information. At the top, there are navigation tabs: Search, Information & Forms, FAQ, and Disclaimer. Below these are sub-tabs: Property Search, Sales Search, Comparable Property Search, Permit Search, and Interactive Map. The main content area is titled "3531 BRONSON LN" and includes a printer icon, a "Property Record Card" link, and a "Show On Map" link. The address "82-06-11-002-831.014-019" is listed, along with a "Brief Legal Description (Not for Use on Legal Documents): THE GLENN'S SEC ONE LOT 57 CENTER TOWNSHIP". The "Property Owner" is identified as MCCONNELL, HOWARD A L/E & WHITE, KAY T/C. Other details include the "Owner's Address" (3531 BRONSON LN), "City" (EVANSVILLE), "State" (IN), and "Zip" (47711). To the right of the text is an aerial photograph of the property with a red crosshair. Below the photo are navigation arrows and the text "Mouse over image to pause, click image for a larger view." Below the main content area are tabs for "General", "Taxes", "Dwelling", "Exterior", "Improvements", "Sales History", and "Sales Disclosures". The "General" tab is active, showing a "VALUATION RECORD" table and "TRANSFER DATA" section.

VALUATION RECORD	
True Tax Values:	
Land:	\$23,800
Improvements:	\$112,800
Total:	\$136,600

TRANSFER DATA

Transfer Date: 6/25/2014
MCCONNELL, HOWARD A MCCONNELL, HOWARD A L/E & WHITE, KIM
Instrument Number:
Bk/Pg: 14 / 14286

Transfer Date: 3/18/2014
MCCONNELL, HOWARD A & BONNIE J T / E MCCONNELL, HOWARD A
Instrument Number: C82-2014-2024208
Bk/Pg: 14 / 5578



What is Gateway for?

\$0.00 (Assessed Value*)

139,802 sq ft



Sanitary



Storm



Water



Height capacity



Up to 15 Storeys

Floor area ratio capacity



5



What is Gateway for?

Parcel Profile Report

Report date: Wednesday, July 02, 2014 8:22 AM

APN: 5841-016-008

Address: 600 E POPPYFIELDS DR, ALTADENA, CA 91001



Site Address : 600 E POPPYFIELDS DR

City : ALTADENA CA 91001

Owner : RICE, CONSTANCE L

Mailing Address : 600 E POPPYFIELDS DR

Mailing City : ALTADENA CA 91001

Lot Size Sq Ft : 9,089

Lot Size Acres : 0.2

Use Code : 0100

Use Type : Residential

Use Description : Single

Legal Description : LICENSED SURVEYORS MAP AS PER BK 17 P 36 OF L S LOT 7

Tax Rate Area

Transfer Date

Last Sale Date

Last Sale Amount

Design Type

Quality Class

Year Built : 19

Units : 1

APN: 5841-016-0

Address: 600 E POPPYFIELDS DR, ALTADENA, CA 91001

APN: 5841-016-008

Address: 600 E POPPYFIELDS DR, ALTADENA, CA 91001

CSD Area Specific

No results found.

Calvo Exclusion

No results found.

Census Tract (2010)

TRACT: 4602.00

TOTAL POPULATION: 1,234

City and Community

CITY COMM: COULDER

TYPE: COMMUNITY

NAME: ALTADENA

SQ MILES: 8.7558

JURISDICTION: UNINCORPORATED

Community Standards

CSD NAME: ALTADENA

ADOPTED: 08-11-11

Community/Area Information

OS NAME:

OS DESCRIPTION

PLAN: LD - Low Density

TYPE: COMMUNITY

ADOPTED: 07-10-11

COMMUNITY NAME

Countywide Land Use

No results found.

DRP Field Office

OFFICE: SAN GABRIEL

OFFICE CODE: PB

Equestrian District

No results found.

Fire Hazards & Risk

No results found.

Leased Parcel (Mileage)

No results found.



View From South



View From North



View From West



View From East

NOTE: The information and materials contained herein are provided as a public service to provide planning and information to the public. Parcel information shown on this page is from the Assessor's Office. The County has made every effort to ensure the accuracy of the information and materials contained within.

NOTE: Data on this page is from the Assessor's Office. The County has made every effort to ensure the accuracy of the information and materials contained within.

NOTE: This is a proprietary dataset provided courtesy of the Los Angeles Region Imagery Acquisition Consortium (LARIAC) and Pictometry International.



Getting the most out of your imagery and LiDAR

Feature Mapping

Planimetric Data Extraction

- 2-D and 3-D options available through LAR-IAC contract
- Customized project specifications and pricing

2-D+ Digitization Solutions

- Direct digitization on orthogonal imagery
- Pavement mapping, structure delineation, etc
- 360 degree inspection

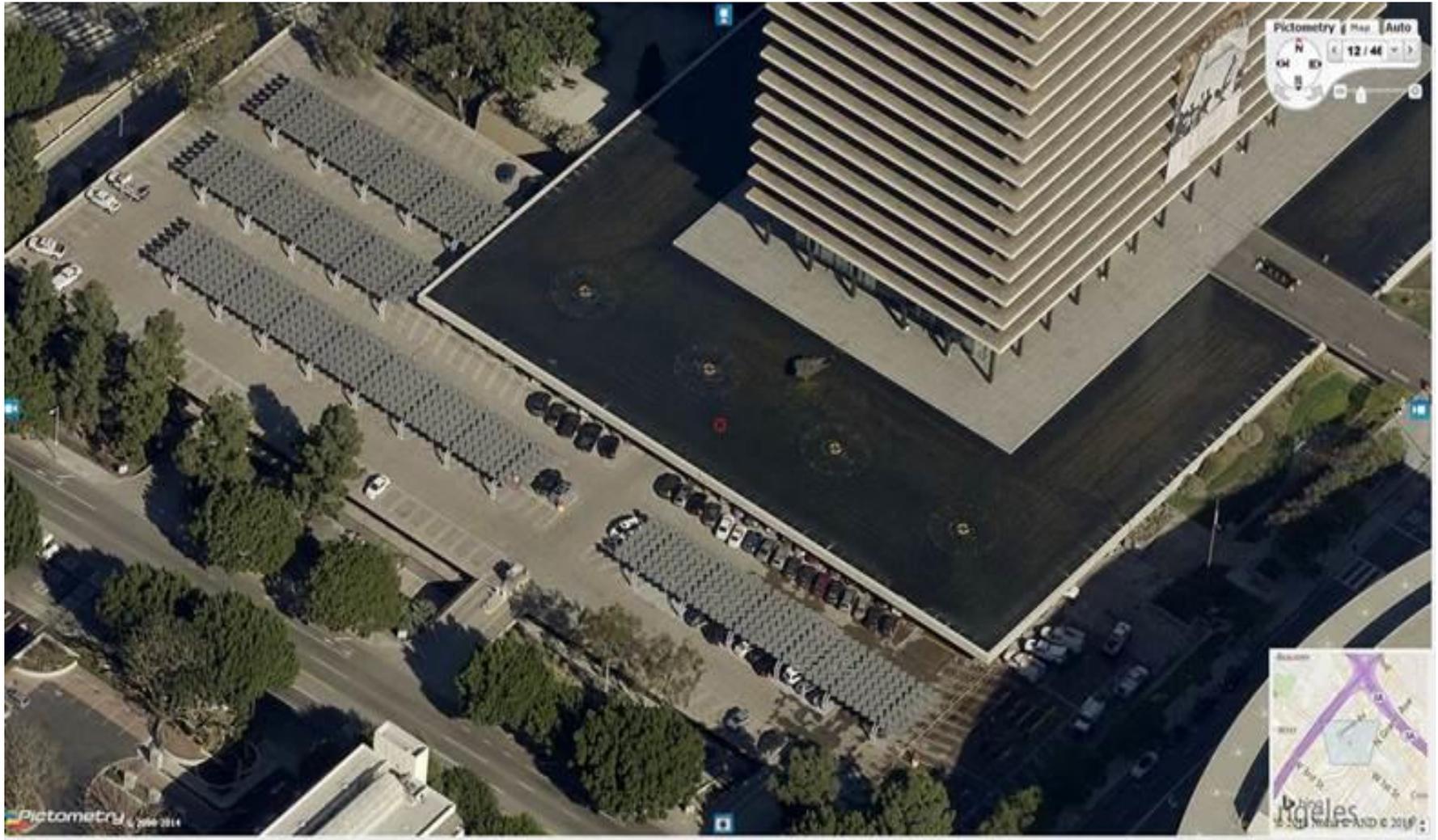
3-D Stereo Mapping

- Traditional photogrammetric compilation



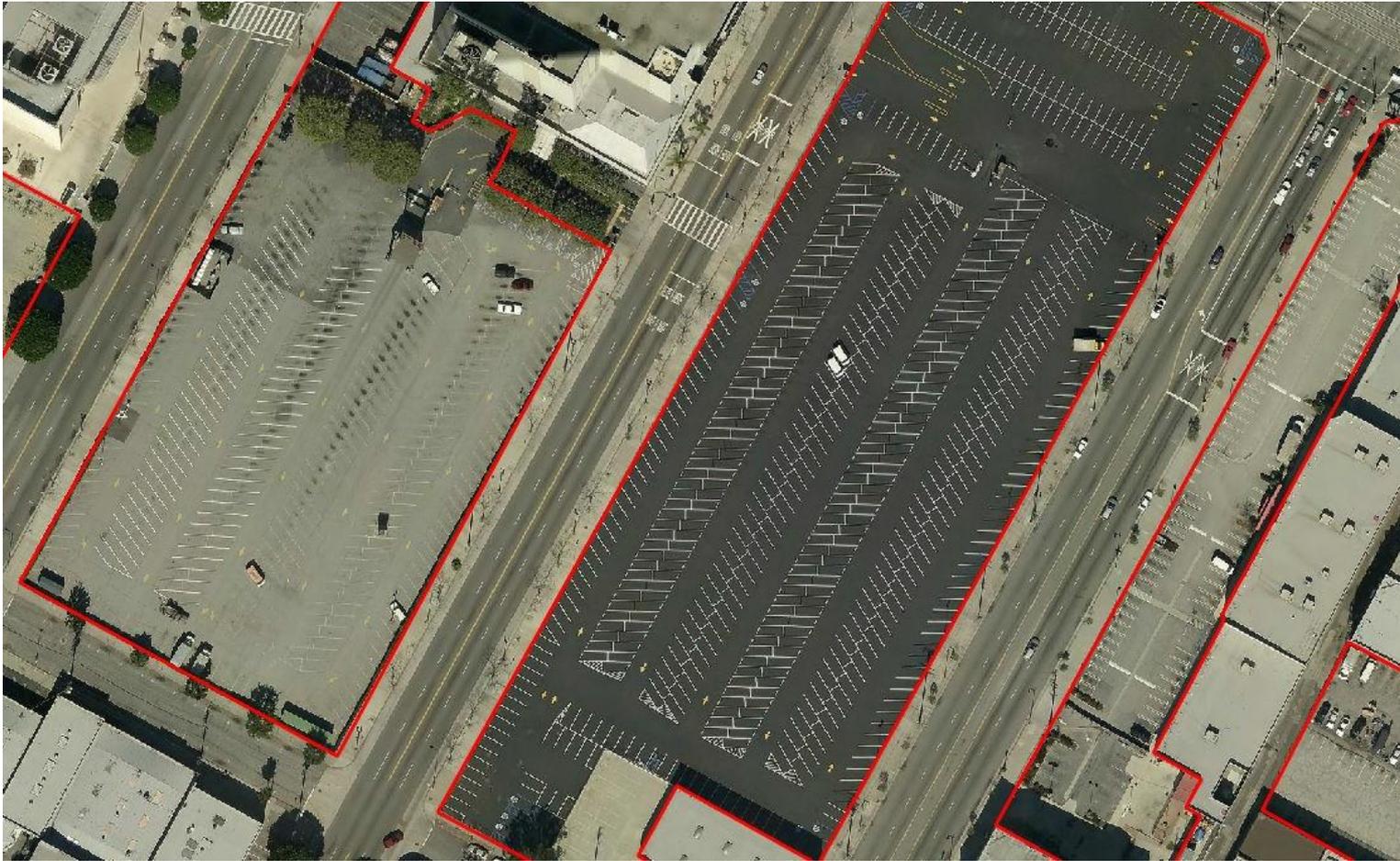
Feature Mapping (2D)

- LA County Solar Feasibility Study



Feature Mapping (2D)

- Scope: Map parking lots across 190,947 commercial parcels throughout LA County, draw polygons for all ground level, paved parking lots.



High Consequence Area (HCA) Mapping

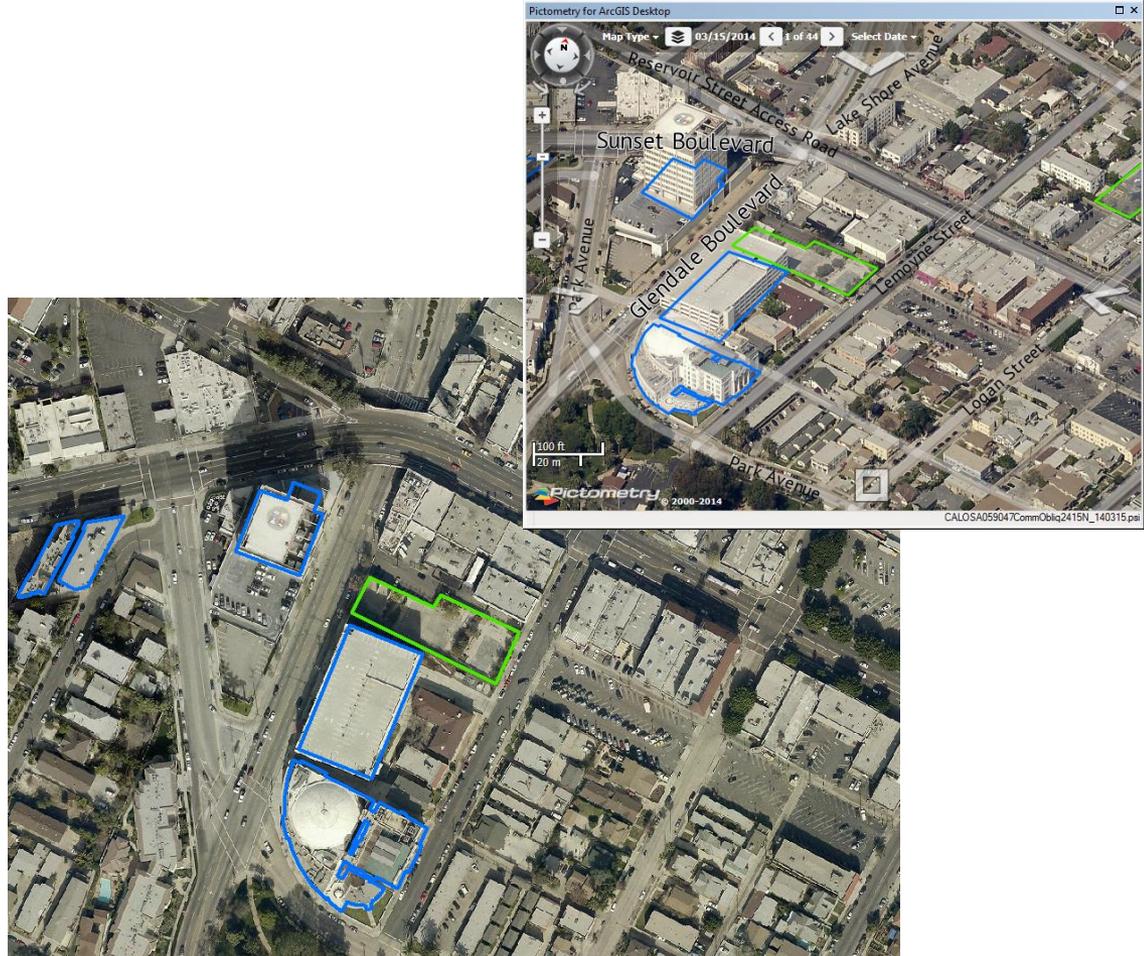
Oil and Gas Pipelines

Identification of:

- 4-story + structures
- High occupancy locations (HOL)
- Dwellings/Business Occupation

Conflict detection:

- Attribution based on parcel data, previous projects, etc.



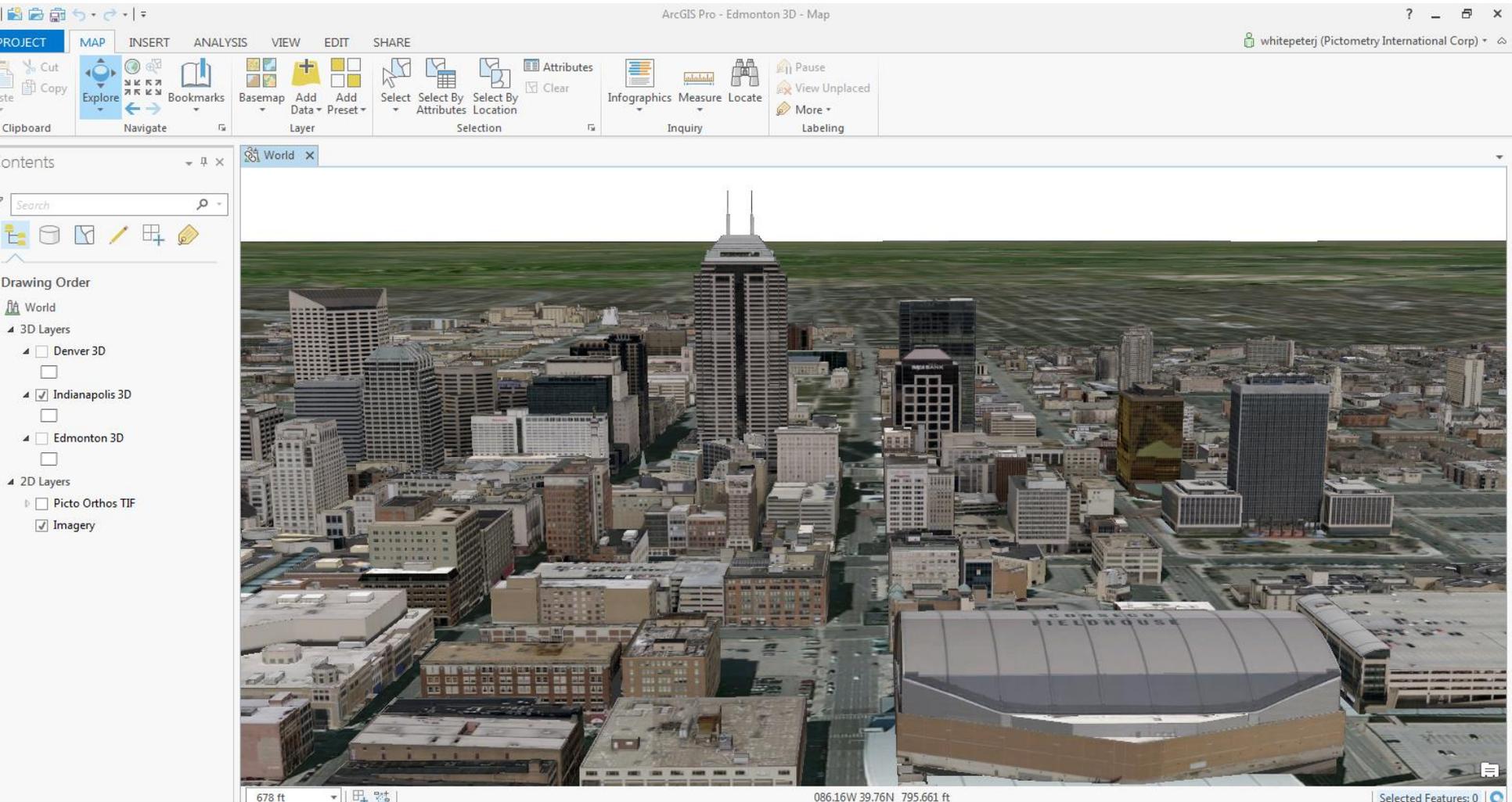
Terrain Mapping – Current Project

Watershed Delineation

- Scope: Pilot project using LiDAR data to perform watershed delineation over 20 square mile of the Ballona Creek pilot area
- Cost/benefit analysis of data LiDAR data density to determine optimal solution
- Deliverables: ESRI polygon feature class delineating watersheds



3D Modeling News



3D Modeling News

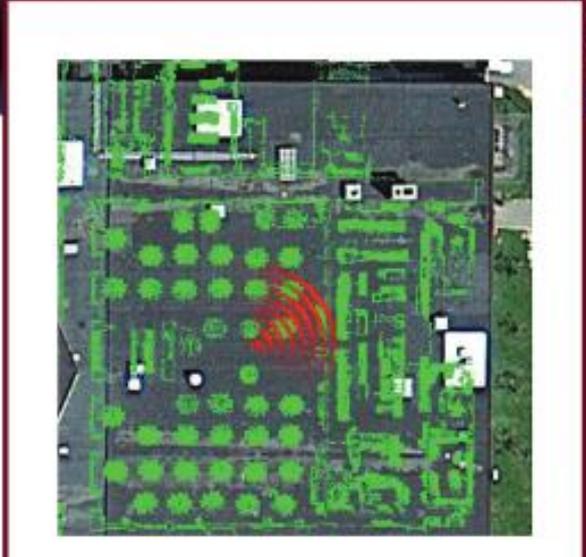
- [University of Phoenix Stadium Glendale](#)

University of Phoenix Stadium Glendale

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CRITICAL360[®]



When seconds save lives, access accurate property and building intelligence, inside and out.

Critical360 intelligence:

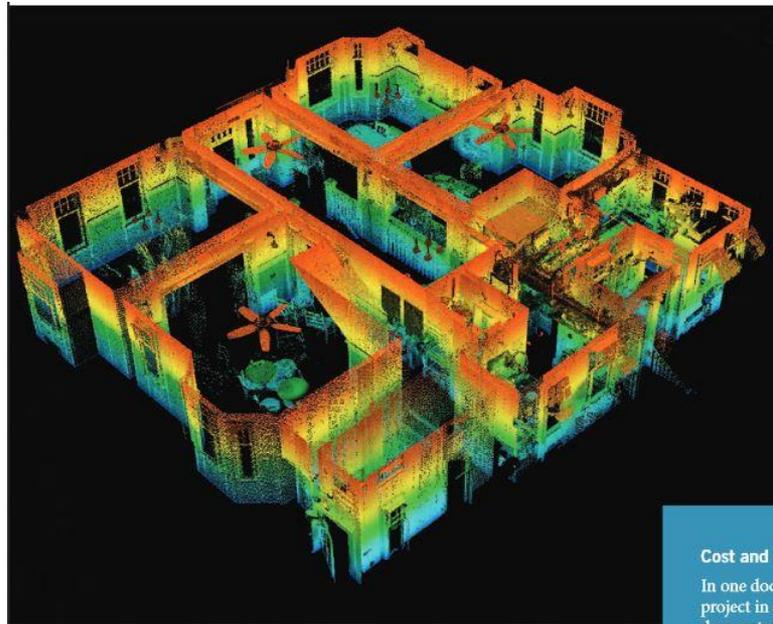


Trimble Indoor Mapping System (TIMMS) Used for Data Capture

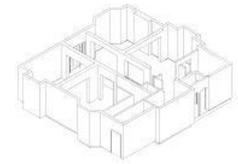
Rapid Response / Public Safety / Law Enforcement

Accurate and up to date spatial information of public buildings offers many safety benefits to responders and to the public:

- Detailed 360 degree imagery provides responders with total situational awareness before entering. Layout and contents are fully known, meaning no surprises.
- Data is available through the internet behind your own firewall to multiple decision makers in multiple locations, enabling informed decisions.
- Data enables detailed preparation and training for specific buildings / areas.



TIMMS scan and resulting maps/models

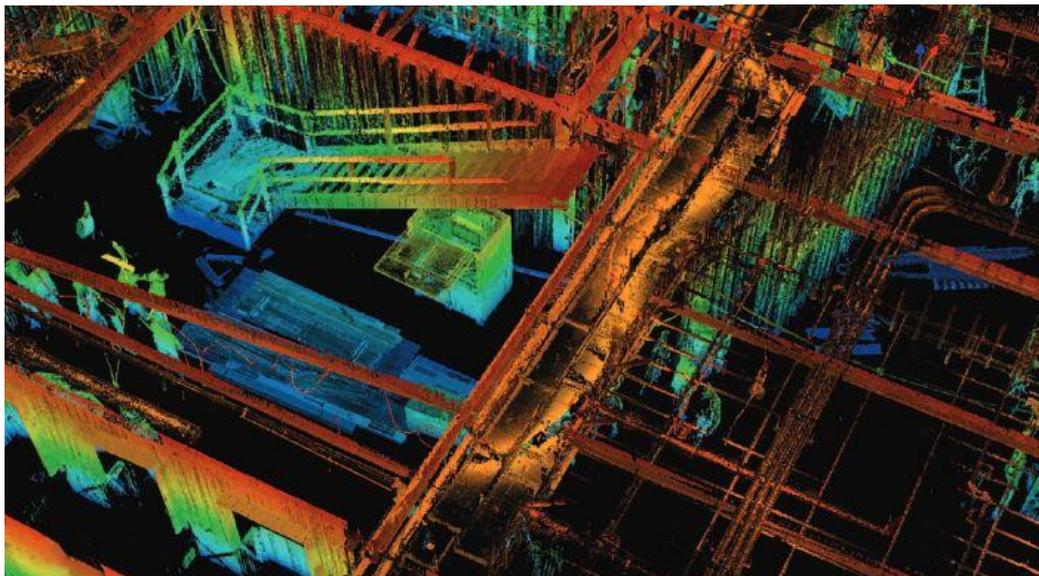


Cost and Time Savings

In one documented public safety project in a high school, TIMMS demonstrated a 50% cost savings & 92% reduction in delivery time over traditional data acquisition methods.



TIMMS™

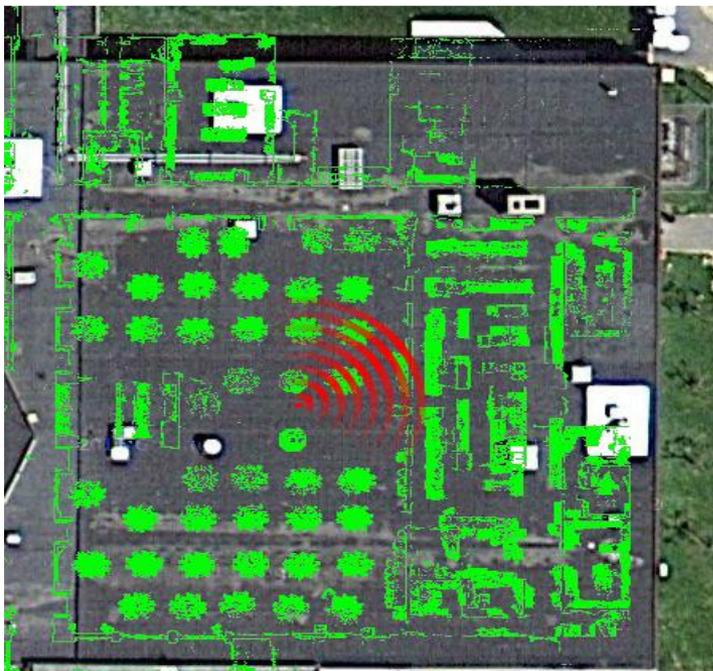
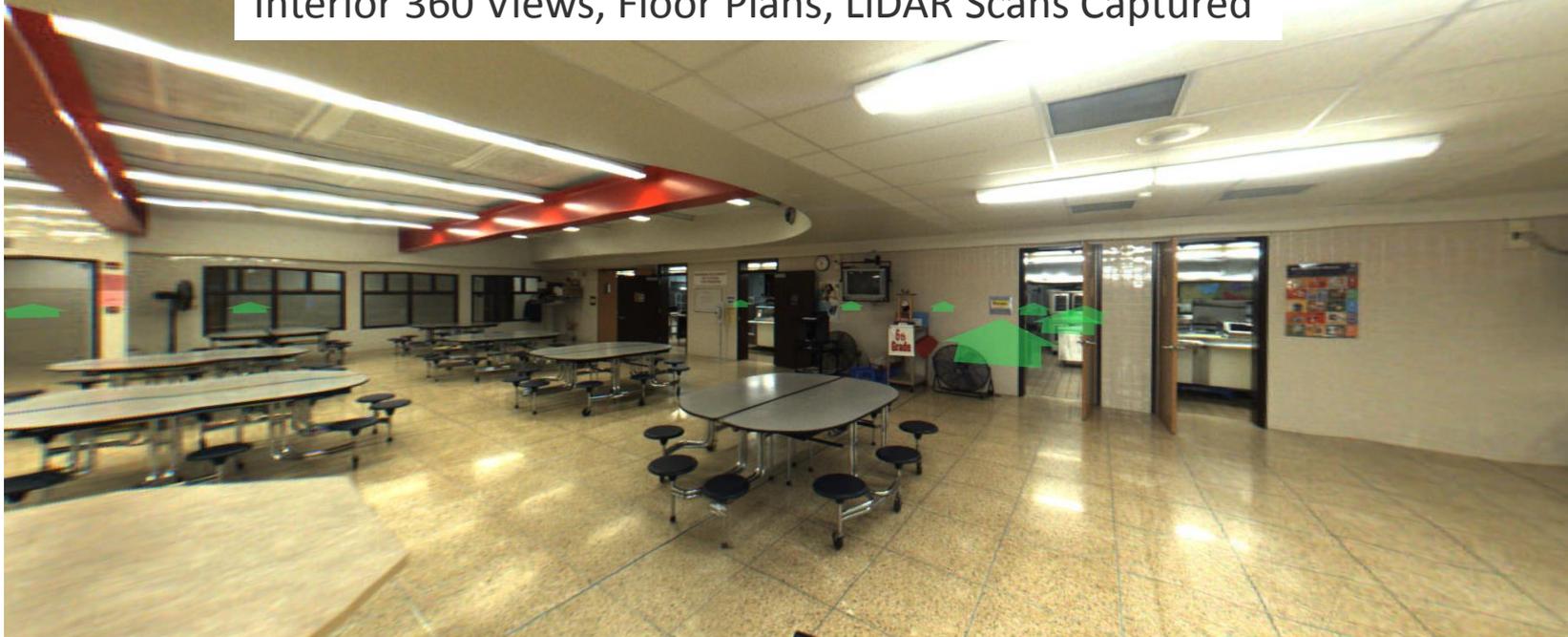


Data Acquisition

- Push cart platform
- Lidar, video and positioning sensors
- Positioning
 - Align at known coordinates for ~20min
 - Using GPS, or
 - Surveyed control point
 - Indoor (GPS-denied) positioning x, y and z
- Data Capture
 - 360 video captured every 1m (adjustable)
 - Push-broom, continuous lidar
- High productivity
 - Mission planning
 - Route
 - Obstacles: Doors, furniture
 - Continuous data collection at walking speed
 - Speed can vary to accommodate conditions
 - Stopping ok
 - 30,000sqft/hr or 45 rooms/hr



Interior 360 Views, Floor Plans, LiDAR Scans Captured



CONNECT360™

CONNECT360™ Select Building... Logout

Drag picture with mouse to rotate the camera
Click anywhere to capture camera control

Room 307 202B Boiler Room

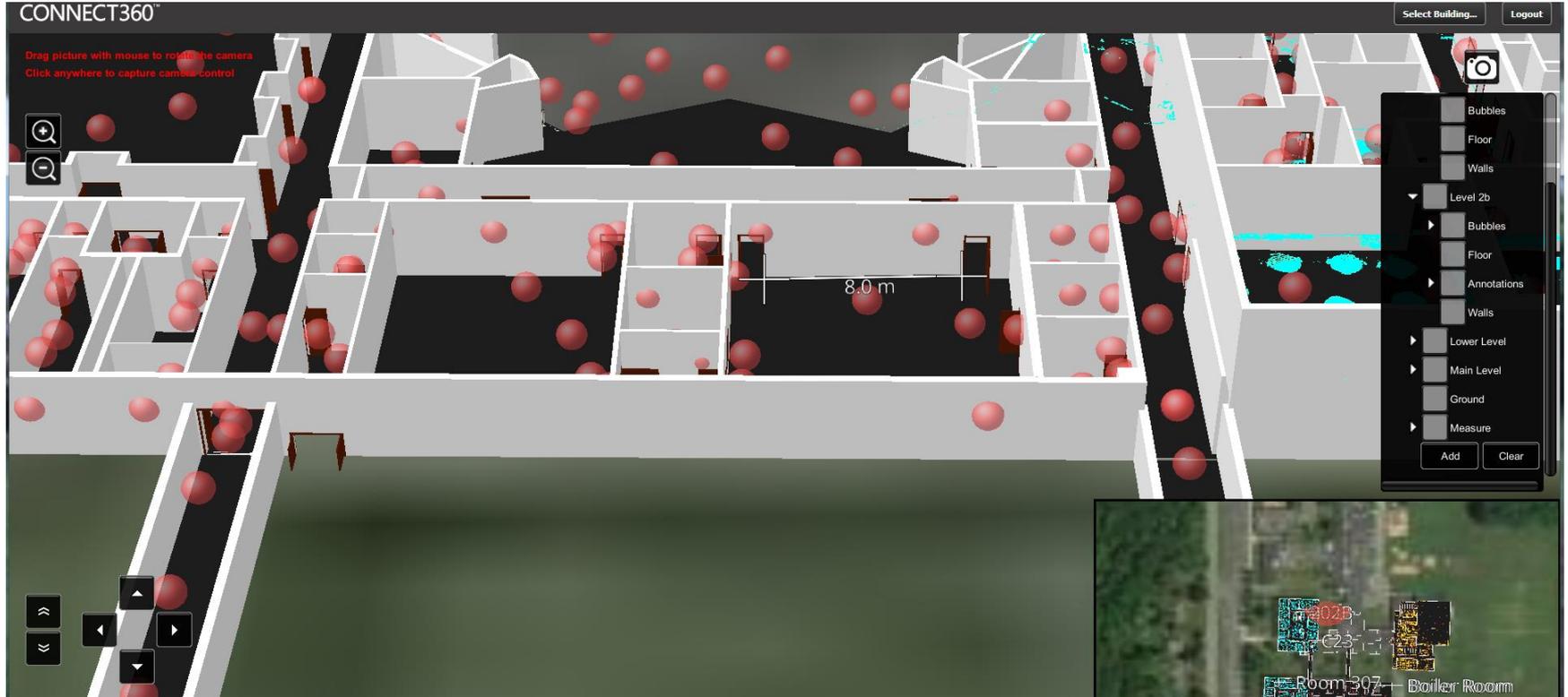
Search

- Bay Trail Middle School
 - Gym
 - Level 2a
 - Bubbles
 - Floor
 - Walls
 - Level 2b
 - Bubbles
 - Floor
 - Annotations
 - Walls
 - Lower Level

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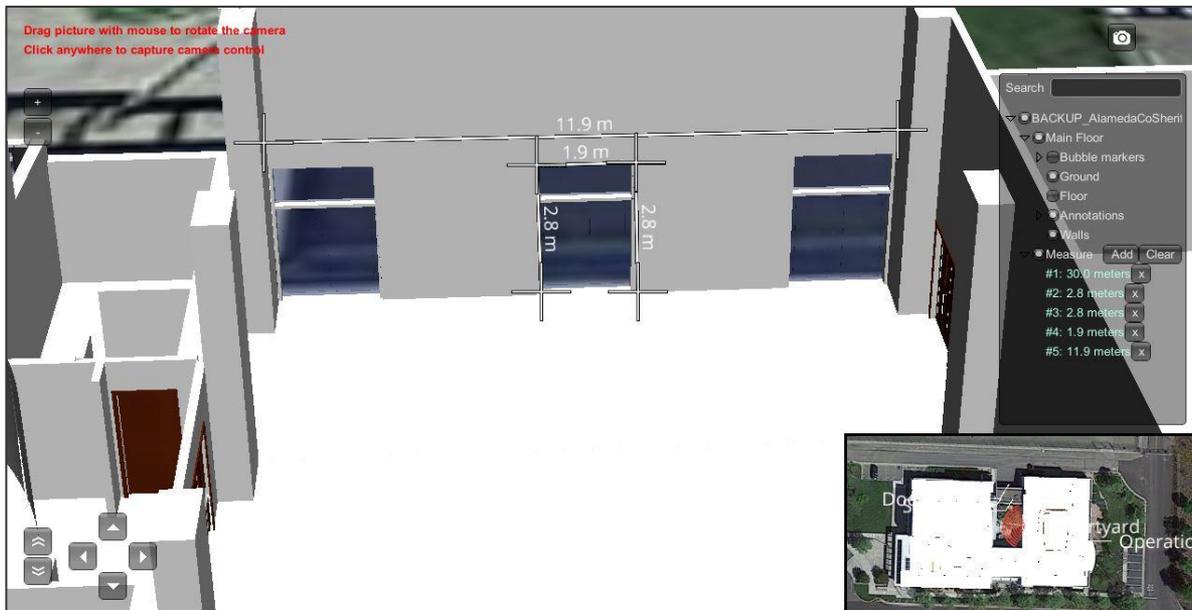


CONNECT360





Full Manipulation of Viewing Angles



Measurement Tools for Interior Dimensions



CONNECT360

CONNECT360™

Select Building... Logout

Drag picture with mouse to rotate the camera.
Click anywhere to capture camera control

Search

- Bay Trail Middle School
 - Gym
 - Level 2a
 - Level 2b
 - Lower Level
 - Main Level
 - Ground
 - Measure

Clear

Room 307 Boiler Room

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The Critical360 capture process includes:

- Professional capture of interior imagery and LiDAR data with TIMMS cart
- Delivery of post-processed data with geo-referenced imagery and LiDAR data point cloud
- Generation of floor plan drawings with attribute data
- Drawings link with MSDS sheets and other ancillary data
- Viewing software with training included



CONNECT360™

EAGLEVIEW TECHNOLOGIES PICTOMETRY INTELLIGENT IMAGES

Email Address

Password

Remember Me

CONNECT360™

[Contact Sales](#) | [Forgot Password](#) | [Change Password](#) | [Customer Support](#)

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<https://connect360.pictometry.com/login.php>



Property Drone Consortium



Please complete this form to receive ongoing information on the Property Drone Consortium and be added to the mailing list.

300 max characters. (300 remaining.)

[MORE INFORMATION](#)

“With numerous carriers and providers of key industry services already committed, this technology initiative will have far-reaching benefits for all involved.”

Chris Barrow, CEO and president of EagleView Technology Corporation

Goals of Consortium:

- Development of property-specific drone hardware and software solutions within first year
- Education of industry-leading expertise including:
 - Flight and camera system engineering
 - Aerial imagery capture and processing
 - Applicable patents
 - Certification of commercial pilots
- Continued development of UAS industry relationships
 - Federal Aviation Administration
 - Ongoing collaboration with leading educational institutions
 - [NUAIR](#) Consortium
- Ongoing public relations campaign
- Establish industry standards for UAS-captured property data formats



SAVE THE DATE



Optional Certified Training, August 17-18, 2015
Conference & Expo, August 19-21, 2015
Renaissance Nashville Hotel

Contact Info:

Brian Garcia

District Manager

602-206-4711

Brian.garcia@pictometry.com

David Peck

Technical Manager

562-619-2042

David.peck@pictometry.com

